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## NOTICE OF ALLOWANCE AND FEE(S) DUE

23373

7590

03/20/2008

SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. SUITE 800 WASHINGTON, DC 20037 EXAMINER

LAUCHMAN, LAYLA G

ART UNIT PAPER NUMBER

2877

DATE MAILED: 03/20/2008

APPLICATION NO.   FILING DATE   FIRST NAMED INVENTOR   ATTORNEY DOCKET NO.   CONFIRMATION NO	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/534,884 05/13/2005 Francisco M. Lopez Torres Q-87071 8692

TITLE OF INVENTION: OPTICAL SPECTRUM ANALYZING DEVICE BY MEANS OF BRILLOUIN SCATTERING AND ASSOCIATED MEASUREMENT PROCESS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	06/20/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where ar in m

appropriate. All further indicated unless correct maintenance fee notifica	correspondence including delegations.	ng the l nerwise	Patent, advance of in Block 1, by (a	rders and notification a) specifying a new co	of m	naintenance fees v pondence address;	vill be and/or	mailed to the current (b) indicating a sepa	corres arate "I	pondence address as FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mushave its own certificate of mailing or transmission.					
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SUITE 800	LVANIA AVENUE	, N.W			I her State addre trans	eby certify that the	is Fee(:	of Mailing or Trans s) Transmittal is being ficient postage for firs ISSUE FEE address 1) 273-2885, on the d	g depos	sited with the United
WASHINGTON	N, DC 20037									(Depositor's name)
										(Signature)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVEN	TOR		ATTO	RNEY DOCKET NO.	CON	NFIRMATION NO.
10/534,884	05/13/2005			Francisco M. Lopez T	orres	}		Q-87071		8692
TITLE OF INVENTION MEASUREMENT PRO		RUM	ANALYZING D	EVICE BY MEANS	S OF	F BRILLOUIN S	SCATT	ERING AND ASSO	CIAT	ED
APPLN. TYPE	SMALL ENTITY	ISS	SUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSU.	E FEE	TOTAL FEE(S) DUE		DATE DUE
nonprovisional	YES		\$720	\$300	_	\$0		\$1020		06/20/2008
EXAM	IINER		ART UNIT	CLASS-SUBCLASS						
LAUCHMAI	N, LAYLA G		2877	356-300000						
CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			or agents OR, alter  (2) the name of a s registered attorney 2 registered patent listed, no name wil	the names of up to 3 registered patent attorneys gents OR, alternatively,  the name of a single firm (having as a member a stered attorney or agent) and the names of up to egistered patent attorneys or agents. If no name is ed, no name will be printed.						
recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified be pletion (	elow, no assignee of this form is NO	data will appear on the Ta substitute for filing (B) RESIDENCE: (C	ne pa g an a	ntent. If an assign assignment. and STATE OR C	COUNT	'RY)		
Please check the appropr	riate assignee category or	catego	ries (will not be pr	rinted on the patent):	<u> </u>	Individual 🖵 Co	orporati	on or other private gro	oup ent	tity 🖵 Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).							
5. Change in Entity Sta	itus (from status indicate as SMALL ENTITY statu		<i>'</i>	☐ b. Applicant is no	long	ger claiming SMA	LL EN	ΓΙΤΥ status. See 37 C.	FR 1.2	7(g)(2).
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) v ites Pate	vill not be accepte ent and Trademark	d from anyone other th						
Authorized Signature						Date				
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,884	05/13/2005	Francisco M. Lopez Torres	Q-87071	8692
23373 75	90 03/20/2008		EXAM	INER
SUGHRUE MIO	N, PLLC		LAUCHMAN	N, LAYLA G
	ANIA AVENUE, N.W	· •	ART UNIT	PAPER NUMBER
SUITE 800 WASHINGTON, I	DC 20037		2877 DATE MAILED: 03/20/200	8

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 408 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 408 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/534,884	LOPEZ TORRES ET AL.
Notice of Allowability	Examiner	Art Unit
	L. G. Lauchman	2877
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet water (OR REMAINS) CLOSED or other appropriate commistry. This application is	rith the correspondence address in this application. If not included nunication will be mailed in due course. THIS
1. This communication is responsive to 1/25/2008.		
2. ☑ The allowed claim(s) is/are <u>1-21</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority unal  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority do</li> </ul>	e been received. e been received in Applicat	ion No
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	MENT of this application. itted. Note the attached EX	(AMINER'S AMENDMENT or NOTICE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.	
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revie	ew ( PTO-948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date	,	
<ul> <li>(b) including changes required by the attached Examiner'         Paper No./Mail Date     </li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet.</li> </ul>	.84(c)) should be written on	the drawings in the front (not the back) of
DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MAT	TERIAL must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Notice of I	nformal Patent Application
<ol> <li>In Notice of References Cited (PTO-092)</li> <li>In Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>		nformal Patent Application Summary (PTO-413),
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No	./Mail Date
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material		s Statement of Reasons for Allowance
c. Diological material	9. 🔲 Other	<u>_</u> .

**DETAILED ACTION** 

Allowable Subject Matter

Claims 1-21 are allowed.

The following is an examiner's statement of reasons for allowance:

As to Claim 1, the prior art of record taken alone or in combination, fails to disclose or render obvious the optical fiber link receiving an optical probe signal from said optical source via said optical circulator and an optical test signal, whose spectrum is measured from an external source via said optical access; said probe signal is input into said optical fiber link at said first end of said optical fiber link, said test signal is input into said optical fiber link at a second end of said optical fiber link that is opposite to said first end of said optical fiber link, in combination with the rest of the limitations of the claim.

As to Claim 17, the prior art of record taken alone or in combination, fails to disclose or render obvious optimizing a polarization alignment of the probe signal with the polarization alignment of the test signal, interacting the probe signal with the test signal to generate an output signal, routing the probe signal and the output signal by an optical circulator, in combination with the rest of the limitations of the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 10/534,884 Page 3

Art Unit: 2877

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to L. G. Lauchman whose telephone number is (571) 272-2418.

The examiner's normal work schedule is 8:00am to 4:30pm (EST), Monday through Friday. If

attempts to reach examiner by the telephone are unsuccessful, the examiner's supervisor Gregory

J. Toatley, Jr. can be reached on (571) 272-2059, ext. 77.

The fax phone number for the organization where this application or proceeding is

assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application should be

directed to the TC receptionist whose telephone number is (571) 272-1562.

/L. G. Lauchman/

Primary Examiner, Art Unit 2877